



24-000536.JJE.259373

WEMMH/SB/08A (4/03)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Shear

1

1

1

Complete if Known

Application Number	10/018,043
Filing Date	May 21, 2002
First Named Inventor	Chmielewski, Jean A.
Group Art Unit	1623
Examiner Name	Kathleen Kahler Fonda
Attorney Docket Number	7040-363 (7024-536)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ² -Kind Code ³ (if known)				
LCM		WO 97/21838 A	06-19-97			
LCM		EP 0 119 480 A	09-26-84			
LCM		EP 0 314 469 A	05-03-89			
LCM		EP 0 435 450 A	07-03-91			
LCM		GB 2 160 100 A	12-18-85			
LCM		EP 0 629 393 A	12-21-94			
LCM		EP 0 052 413 A2	05-26-82			
LCM		WO 00/076480 A3	12/21/00			

Examiner Signature	Leigh C. Maier	Date Considered	12-21-04
-----------------------	----------------	--------------------	----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 223-1450, Alexandria, VA 22313-1450.



007024-000536.JJE.259373

WEMMH/SB/08A (4/03)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ^a	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ²
LCM		BEAVIS, Ronald C. et al. Epitaxial Protein Inclusion in Sinapic Acid Crystals, <i>J. Phys. D: Appl. Phys.</i> 26 (1993) 442-447.	
LCM		BORMAN, Stu. Biochemical Applications of Mass Spectrometry Take Flight, <i>C&EN</i> , June 19, 1995, 23-32.	
LCM		CARPENTER, J.F. and CROWE, J.H. Infrared Spectroscopic Studies of the Interaction of Carbohydrates with Dried Proteins, <i>Biochemistry</i> , 1989, pp. 3916-22, Vol. 28.	
LCM		CARPENTER, J.F. et al. Separation of Freezing- and Drying-induced Denaturation of Lyophilized Proteins by stress-specific stabilization: I. Enzyme Activity and Calorimetric Studies. <i>Arch. Biochem. Biophys.</i> , 1993, pp. 456-64, Vol. 303.	
LCM		CHMIELEWSKI, Jean, et al. Single-Crystal Matrix Isolation of Biopolymers, <i>J. Am. Chem. Soc.</i> , 10/29/97, pp. 10565-66, Vol. 119, No. 43.	
LCM		GOKE, R., et al. Exendin-4 is a High Potency Agonist and Truncated Exendin-(9-39)-amide an Antagonist at the Glucagon-like Peptide 1-(7-36)-amide Receptor of Insulin-secreting Beta-cells. <i>J. Biol. Chem.</i> , 9/15/93, pp. 19650-55, 268 (26).	
LCM		HILLENKAMP, Franz, et al. Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Biopolymers, <i>Analytical Chemistry</i> , 12/15/91, pp. 1193A-1283A, Vol. 63, No. 24.	
LCM		IZUTSU, K., et al. The Effects of additives on the stability of freeze-dried β -galactosidase stored at elevated temperatures. <i>Int. J. Pharm.</i> , 1991, pp. 137-46, Vol. 71.	
LCM		IZUTSU, K., et al. Decreased protein-stabilizing effects of cryoprotectants due to crystallization. <i>Pharm. Res.</i> , 1993, pp. 1232-37, Vol. 10.	
LCM		KURIMOTO, Miki et al. Kinetic Stabilization of Biopolymers in Single-Crystal Hosts: Green Fluorescent Protein in α -Lactose Monohydrate, <i>J. Am. Chem. Soc.</i> 1999, Vol. 121, pp. 6952-6953.	
LCM		MALKIN, A.J. et al. Mechanisms of Growth for Protein and Virus Crystals, <i>Nature Structural Biology</i> , Vol. 2, No. 11, November, 1995.	
LCM		POWERS, H.E.C. Sucrose Crystals: Inclusions and Structure, <i>Sugar Technol Rev.</i> , I (1969/70) 85-190	
LCM		RASIMAS, J.P. et al. Measuring Self-Assembly in Solution: Incorporation and Dynamics of A "Tailor-Made Impurity" in Precrystalline Glucose Aggregates, Department of Chemistry and Department of Chemical Engineering, Michigan State University, East Lansing, Michigan.	
LCM		STRUPAT, K. et al. 2,5-Dihydroxybenzoic Acid: A New Matrix For Laser Desorption-Ionization Mass Spectrometry, <i>International Journal of Mass Spectrometry and Ion Processes</i> , 111 (1991) 89-102	
LCM		VISSEER, R.A., et al. A Natural Crystal Growth Retarder in Lactose. <i>Milk Diary J.</i> , 1980, pp. 255-75, Vol. 34.	
		WINDHOLZ, M. (editor). <i>Merck-Index</i> , 10 th edition, p. 769.	

→ J. Phys. Chem.
(1996) vol 42
pp 17034 -40.

not present
in file

Examiner
Signature

Leigh C. Maier

Date Considered

12-21-04